

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P568046

Luminaire Tested: **8SNX-82SL-LW-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-82SL-LW-UNV-L930-CD  
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

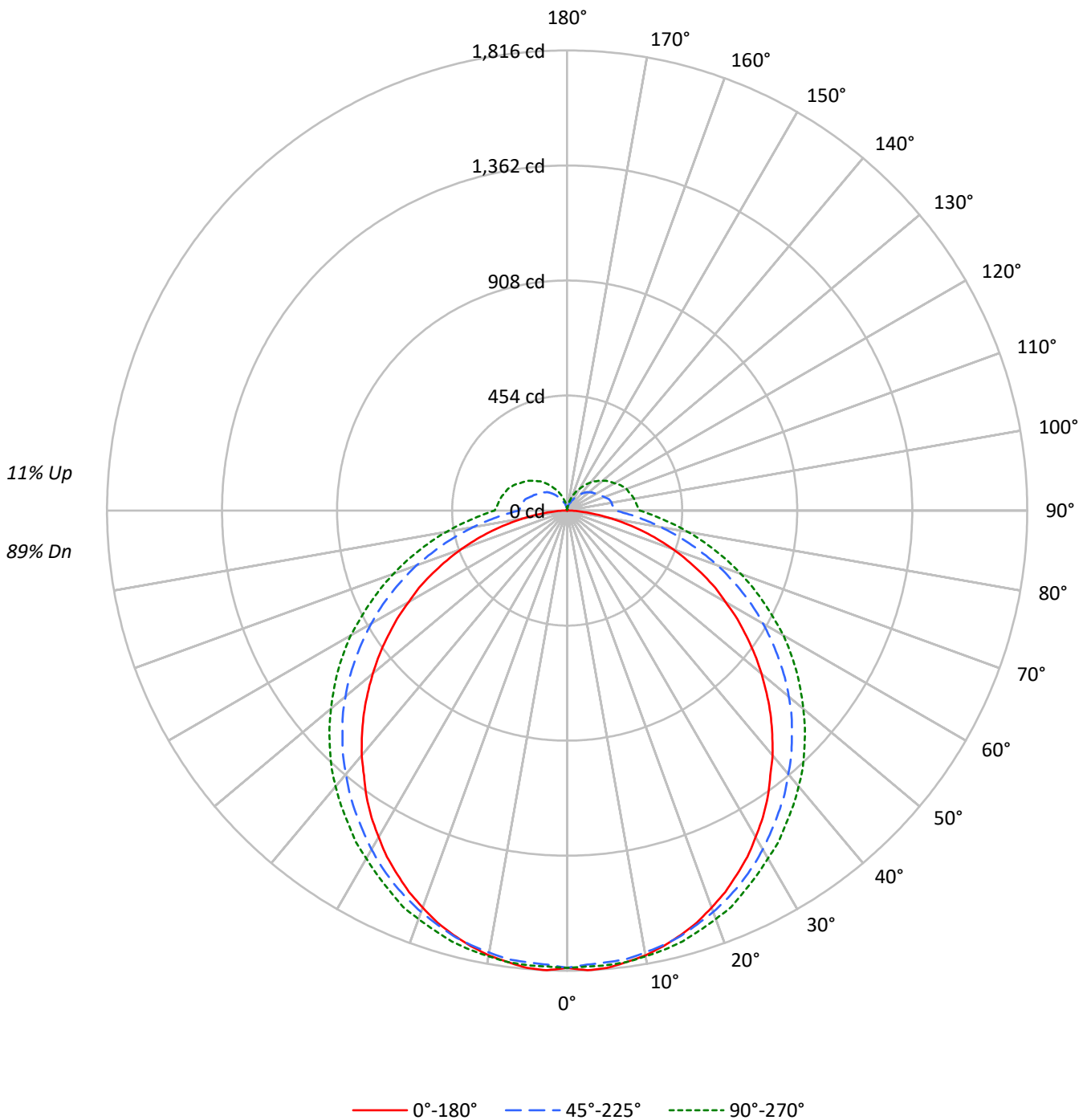
Lumens per Lamp: N/A  
Luminaire Lumens: 6424.0 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 52.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	76	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9712	9712	9712
5°	9772	9274	9193
10°	9704	8914	8733
15°	9607	8565	8320
20°	9475	8202	7905
25°	9322	7853	7500
30°	9139	7493	7112
35°	8939	7131	6750
40°	8709	6777	6403
45°	8461	6422	6049
50°	8177	6055	5677
55°	7866	5646	5311
60°	7499	5218	4926
65°	7120	4755	4486
70°	6591	4261	4052
75°	5887	3684	3593
80°	4745	3100	3136
85°	3342	2558	2666



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.4	2.7
10°-20°	492.6	7.7
20°-30°	749.1	11.7
30°-40°	909.3	14.2
40°-50°	960.9	15.0
50°-60°	899.2	14.0
60°-70°	737.8	11.5
70°-80°	507.4	7.9
80°-90°	277.9	4.3
90°-100°	179.0	2.8
100°-110°	160.6	2.5
110°-120°	132.9	2.1
120°-130°	102.3	1.6
130°-140°	71.9	1.1
140°-150°	43.3	0.7
150°-160°	20.7	0.3
160°-170°	6.8	0.1
170°-180°	0.8	0.0
0°-30°	1413.1	22.0
0°-40°	2322.5	36.2
0°-60°	4182.5	65.1
0°-90°	5705.6	88.8
90°-120°	472.4	7.4
90°-150°	690.0	10.7
90°-180°	718.0	11.2
0°-180°	6424.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1804	1804	1804	1804	1804	
5°	1812	1808	1790	1804	1801	172
15°	1734	1741	1738	1760	1760	489
25°	1585	1604	1622	1656	1656	730
35°	1380	1414	1455	1496	1507	862
45°	1135	1187	1254	1310	1325	875
55°	863	934	1020	1083	1105	772
65°	584	662	763	833	856	579
75°	305	387	499	577	603	321
85°	67	160	272	346	372	77
90°	0	89	190	260	286	5
95°	0	86	182	249	275	0
105°	0	71	171	234	257	2
115°	4	63	145	208	234	4
125°	4	52	123	179	201	3
135°	4	41	100	145	164	3
145°	4	30	71	112	123	2
155°	4	19	45	71	82	2
165°	4	11	22	34	41	1
175°	4	4	7	7	4	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1804.5	1804.5	1804.5	1804.5	1804.5
2.5°	1815.7	1812.0	1793.4	1808.2	1800.8
5°	1812.0	1808.2	1789.6	1804.5	1800.8
7.5°	1797.1	1797.1	1785.9	1800.8	1797.1
10°	1782.2	1782.2	1771.0	1789.6	1785.9
12.5°	1759.9	1763.6	1756.1	1778.5	1774.8
15°	1733.8	1741.3	1737.5	1759.9	1759.9
17.5°	1704.1	1711.5	1711.5	1737.5	1737.5
20°	1666.9	1678.0	1685.5	1715.2	1715.2
22.5°	1629.6	1644.5	1655.7	1681.7	1692.9
25°	1585.0	1603.6	1622.2	1655.7	1655.7
27.5°	1540.4	1562.7	1585.0	1618.5	1622.2
30°	1488.3	1514.3	1544.1	1577.6	1585.0
32.5°	1436.2	1469.7	1499.4	1540.4	1551.5
35°	1380.4	1413.8	1454.8	1495.7	1506.9
37.5°	1317.1	1358.0	1410.1	1454.8	1465.9
40°	1261.3	1305.9	1358.0	1410.1	1421.3
42.5°	1198.1	1246.4	1309.7	1358.0	1376.6
45°	1134.8	1186.9	1253.9	1309.7	1324.6
47.5°	1067.8	1127.4	1201.8	1253.9	1272.5
50°	1000.9	1064.1	1142.2	1201.8	1216.7
52.5°	933.9	1000.9	1082.7	1142.2	1160.8
55°	863.2	933.9	1019.5	1082.7	1105.0
57.5°	796.2	866.9	956.2	1023.2	1045.5
60°	721.8	803.7	893.0	959.9	986.0
62.5°	658.6	733.0	829.7	896.7	919.0
65°	584.1	662.3	762.7	833.4	855.8
67.5°	513.5	595.3	695.8	770.2	792.5
70°	442.8	524.6	632.5	703.2	729.2
72.5°	372.1	457.6	561.8	640.0	666.0
75°	305.1	386.9	498.6	576.7	602.7
77.5°	234.4	323.7	435.3	513.5	543.2
80°	171.2	264.2	375.8	453.9	483.7
82.5°	115.3	208.4	320.0	398.1	427.9
85°	67.0	160.0	271.6	346.0	372.1
87.5°	33.5	122.8	227.0	301.4	327.4
90°	0.0	89.3	189.8	260.4	286.5
92.5°	0.0	85.6	186.0	253.0	279.0
95°	0.0	85.6	182.3	249.3	275.3
97.5°	0.0	81.9	178.6	249.3	271.6
100°	0.0	78.1	178.6	245.6	267.9
102.5°	0.0	74.4	174.9	241.8	264.2
105°	0.0	70.7	171.2	234.4	256.7
107.5°	3.7	70.7	163.7	230.7	253.0
110°	3.7	67.0	156.3	227.0	249.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	63.3	148.8	219.5	241.8
115°	3.7	63.3	145.1	208.4	234.4
117.5°	3.7	59.5	137.7	200.9	227.0
120°	3.7	59.5	133.9	193.5	215.8
122.5°	3.7	55.8	126.5	186.0	208.4
125°	3.7	52.1	122.8	178.6	200.9
127.5°	3.7	48.4	119.1	171.2	193.5
130°	3.7	44.6	111.6	163.7	182.3
132.5°	3.7	44.6	107.9	152.5	174.9
135°	3.7	40.9	100.5	145.1	163.7
137.5°	3.7	37.2	93.0	137.7	156.3
140°	3.7	33.5	85.6	130.2	145.1
142.5°	3.7	33.5	78.1	119.1	133.9
145°	3.7	29.8	70.7	111.6	122.8
147.5°	3.7	26.0	63.3	100.5	111.6
150°	3.7	26.0	55.8	89.3	100.5
152.5°	3.7	22.3	48.4	81.9	93.0
155°	3.7	18.6	44.6	70.7	81.9
157.5°	3.7	18.6	37.2	59.5	70.7
160°	3.7	14.9	33.5	48.4	59.5
162.5°	3.7	14.9	29.8	40.9	52.1
165°	3.7	11.2	22.3	33.5	40.9
167.5°	3.7	11.2	18.6	26.0	33.5
170°	3.7	7.4	14.9	18.6	26.0
172.5°	3.7	7.4	11.2	11.2	11.2
175°	3.7	3.7	7.4	7.4	3.7
177.5°	3.7	3.7	3.7	3.7	3.7
180°	3.7	3.7	3.7	3.7	3.7

(END OF REPORT)